Installation/Service/Operations Manual

READY ACCESS®

Model 131

Self Closing and Fully Automatic Electric

Pass-Thru Window Systems

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DISCLAIMER

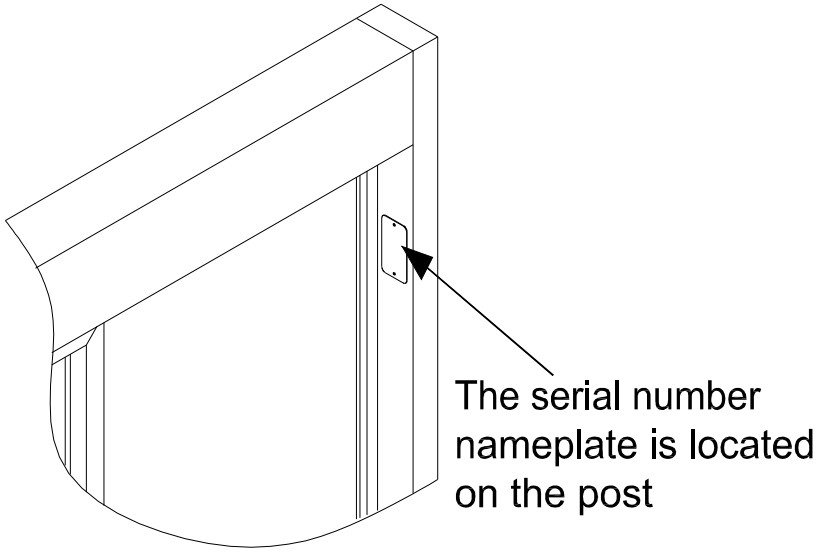
READY ACCESS DISCLAIMS ANY LIABILITY FOR ANY DAMAGE OR HARM CAUSED TO THE 131 DRIVE-THRU WINDOW, IT'S OPERATOR OR ANY OTHER EQUIPMENT HOWEVER CAUSED IF THE 131 DRIVE-THRU WINDOW IS REPAIRED OR SERVICED BY ANYONE OTHER THAN AN AUTHORIZED SERVICE ENGINEER OR CONTRARY TO THE MANUFACTURERS WRITTEN INSTRUCTION CONTAINED HEREIN.

THIS MANUAL IS INTENDED FOR USE BY THE IN-HOUSE OR AUTHORIZED FIELD SERVICE ENGINEERS AND SALES REPRESENTATIVES

The manufacturer maintains the right to update, add or issue a new service manual at any time without notice, thereby rendering all previous issues obsolete.

Please write the Serial Number and Installation Date for your drive-thru window in the spaces provided.

Serial Number	
Date of Installation	



CONTACT INFORMATION

FOR SALES AND SERVICE CONTACT

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INTRODUCTION

The Ready Access window is quality designed to give you years of reliable, trouble-free service. Each window is shipped pre-assembled, fully glazed and ready for installation. All Ready Access windows are thoroughly tested prior to shipping.

The 131 Bi-Parting Window is the perfect enhancement to the drive-thru concept, offering unobstructed views of customer and crew.

The 131 come in two versions, manual/self closing and electric operation. The electric version is fully automatic with a manual override in case of a power outage. The doors will open and close by stepping into an out of the presence sensor. Both models meet health department requirements for self-closing units.

This attractive and economical window is ideal for a drive-thru or walk up application. The large service opening is suitable for both large and small operations. It is available in one standard width, 53 ½" and two standard window heights, 37 ¾" H and 43 ¾" H.

When used with the READY ACCESS pass-thru air curtain system, this single panel-sliding window will provide the crew and customer with comfort during winter (AA300 only) and an insect and exhaust deterrent during the summer.

PRODUCT INFORMATION

- **Manual/Self Closing or Electric Openings**
  The 131 Bi-Parting Slider keeps building costs down by offering the window in a manual/self close operating style. Or for those who experience heavier traffic, an electric operating style is also available. Both models meet health department requirements for self-closing units.

- **Ease of Operation**
  In a manual/self closing operation, the inside attendant pulls the door handle, and both doors part from the center to either side. With a fully automated operation, the operator simply steps into the presence sensor and the movable window panels slide open. When the operator steps out of the presence sensor, the movable window panels automatically close. The range for the presence sensor is adjustable to specific customer needs.

- **Adjustable Service Opening**
  Operators can easily adjust the window for two convenient opening sizes at any given time. By simply pressing a button the doors will open to either 12"W or 18"W serving area.

- **Quality Construction**
  Anodized aluminum extrusions, stainless steel and 1/4" tempered glass combine to give you an attractive window that not only enhances building exteriors, but will not rust, pit or weather. Track free bottom sill provides for a contaminant free surface.

- **Double Security Locks**
  The 131 Bi-Parting Slider automatically locks each time the window closes, providing security when the window is left unattended. When the drive-thru is closed, manual security locks help prevent outside entry.

- **Fully Assembled, Ready to Install**
  Ready Access windows are shipped completely pre-assembled, and fully glazed for lower installation costs. Normal installation takes less than two hours.

- **Warranty and Service Support**
  Your Ready Access window comes with a one year limited warranty on parts and labor provided by a worldwide service organization.

STANDARD OPTIONS

- The 131 Bi-Parting Slider is available in statuary bronze or clear anodized aluminum.

- 2 standard window dimensions available:
  131: 53 1/2"W x 37 3/4"H (18" {458mm} W x 31" {788mm} H service opening)
  131-6: 53 1/2"W x 43 3/4"H (18" {458mm} W x 37" {940mm} H service opening).

- An inside/outside stainless steel shelf is also available.

CUSTOM OPTIONS

- Custom heights are available in both manual and electric operations.

- Tinted glass is available upon request.

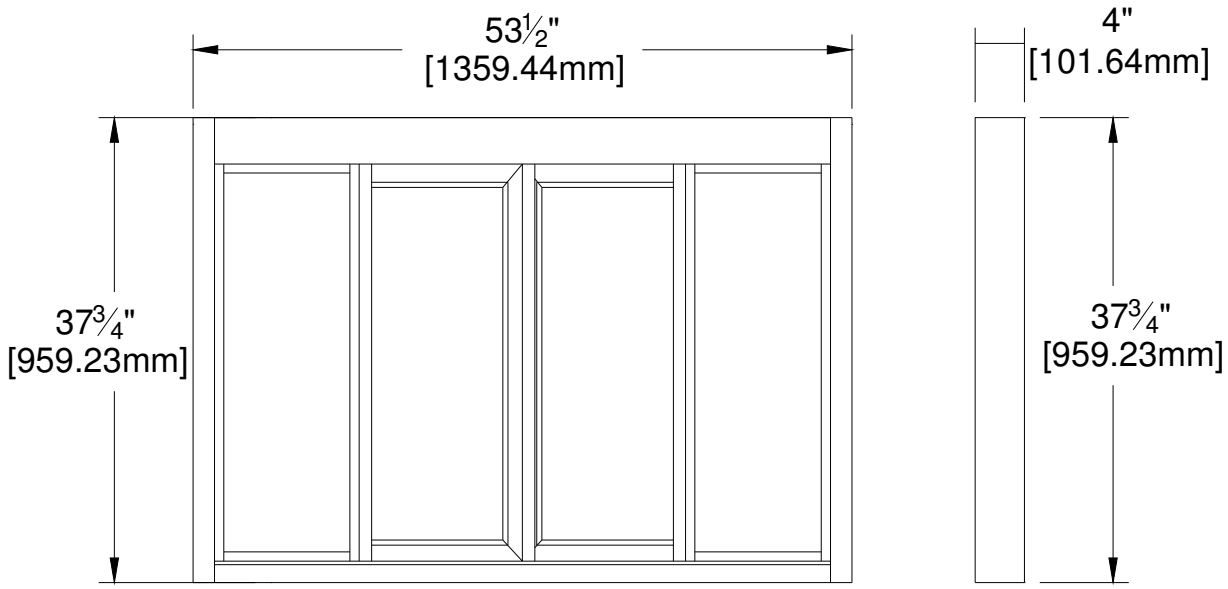
- Powder coat painting is available in a wide range of custom colors.

SPECIFICATIONS AND PERFORMANCE

Model Number	Unit Voltage USA	Unit Voltage International	Actual Unit Amps	Dimensions In Inches W X H x D	Weight In Shipping Carton
131 - E	110/120 VAC - 60Hz	220/240 VAC 50/60Hz	15 A (US) 8 A (Int'l)	53½ x 37¾ x 4 (1359mm x 959mm x 102mm)	111 lbs
131-6 - E	110/120 VAC - 60Hz	220/240 VAC 50/60Hz	15 A (US) 8 A (Int'l)	53 ½ x 43¾ x 4 (1359mm x 1112mm x 102mm)	115 lbs

Dimensions In Inches W x H x D	Service Opening Size W x H	Glazing Rough Opening Size W x H	Masonry Rough Opening Size W x H
53½ x 37¾ x 4	18" x 31"	53 ¾" x 38" 1365mm x 965mm	54" x 38 ¼" 1372mm x 972mm
* 53 ½ x 43¾ x 4	18" x 37"	53 ¾" x 44" 1365mm x 1198mm	54" x 44 ¼" 1372mm x 1124mm

Dimensions



*131-6 Vertical Size = 43 3/4 (1112mm)

Figure 1

Safety Information

WARNING: To avoid the risk of fire, Electric Shock or injury to persons, observe the following:

1. Before servicing or cleaning the unit, switch the power off at the mechanical switch near the unit (Installed by an Electrician) or the electrical entry service panel/circuit breaker. (Load Center)
   - **OSHA** LOCK OUT – TAG OUT procedures are to be observed to prevent power from being switched on accidentally.

2. Any Installation and / or Electrical work must be done by **QUALIFIED** persons in accordance with all applicable codes / standards and manufacturers recommendations and specifications.

3. **DO NOT** insert fingers and / or foreign objects into the Drive-Thru Window.
   DO NOT block or tamper with the unit in any manner while it is in operation.

4. This product must not be used in Potentially Dangerous locations such as Flammable, Explosive Chemical – laden environment.

WARRANTY:

Ready Access will only accept responsibility for manufacturing defects in the product's construction and/or materials.

Adjustments required during installation are the responsibility of the installer or contractor and will not be covered under warranty.

Problems caused by improper installation are the responsibility of the installer or contractor and will not be covered under warranty.

Installation Procedures

Tools required to perform the installation

- Electric Drill
- Metal Drill bits – 3/16" (5mm) & ¼" (6mm)
- Screwdrivers – Slotted and Phillips
- Hacksaw
- Jack Knife
- Flat File – Coarse
- Caulking gun
- Extension Cord
- Masonry drill bit – 3/16" (5mm)
- Masonry Hole Saw – 1" (25mm)
- Channel Lock Pliers
- Tape Measurer
- Wire Cutter
- Step Ladder
- Level

Materials required for installation

- Window framing, architect specified and installed in building.
  (Ready Access recommended material is ⅛" (3mm) x 1 ¾" (44.5mm) x 4" (102mm) hollow aluminum tubing or glazing channel)
- Electrical Tape
- Wire Nuts
- Caulking – silicone (Color specific to the color of window)
- Connectors for conduit as required
- Shingle type shims – as required to level and plum the window

Physical Installation

Before you begin installing your Ready Access Drive-Thru Window, you must determine what type of installation will be required. Example: Wood Framing, Masonry Framing, etc.)
Please refer to the details below and pick which one best fit your application.

See Chart on page 7 for Masonry and Glazing Rough Opening Sizes

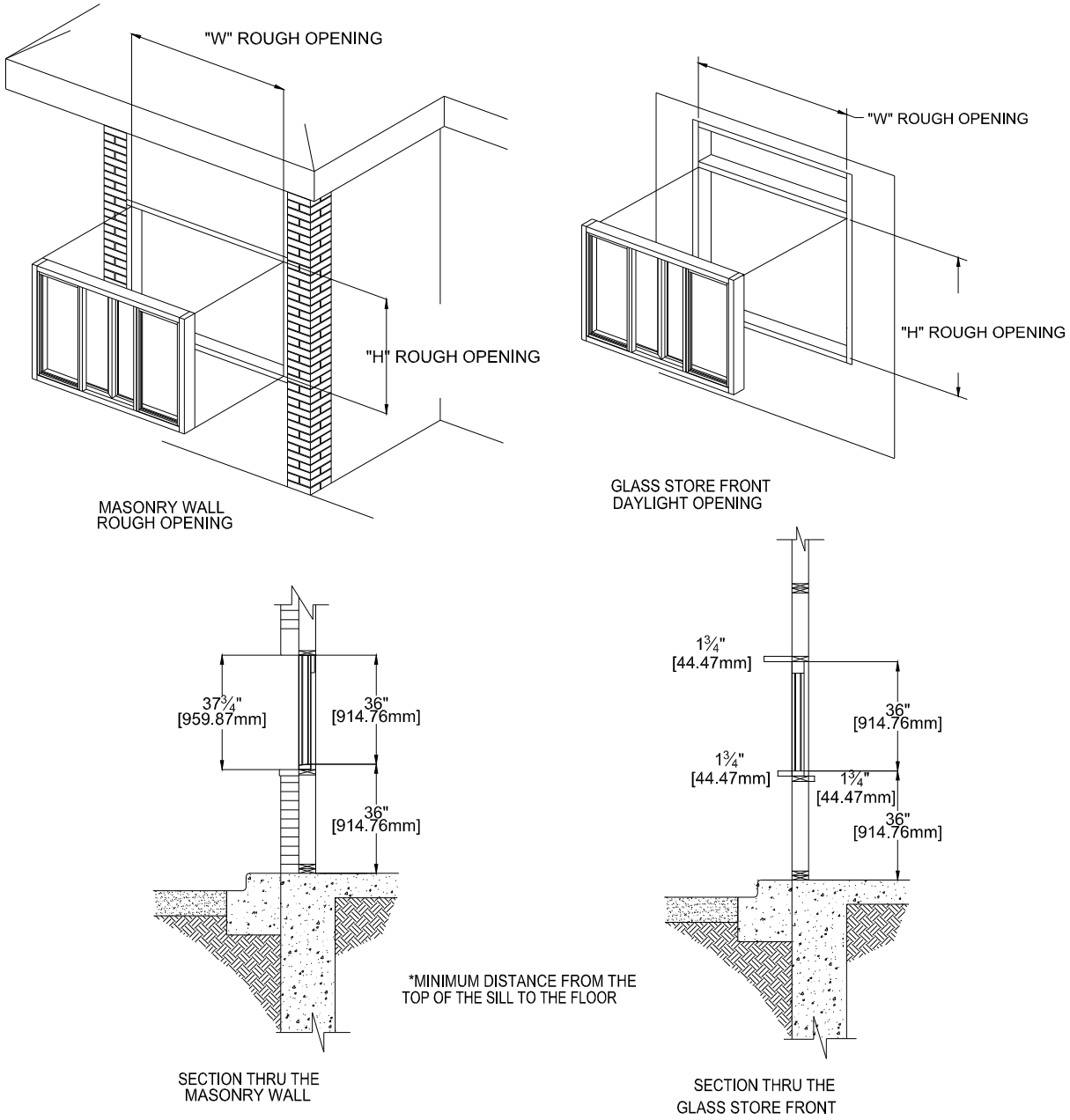


FIGURE 2

WARNING:
TWO PEOPLE ARE REQUIRED FOR THE LIFTING AND INSTALLATION OF THE WINDOW.

1. Confirm that the customer-supplied frame is made to accommodate the dimensions as illustrated on page 9.
2. Confirm that AC power has been run and is ready for connection to the window.
3. Check shipping carton for any shipping damage and remove window from the carton.
4. Check window for any shipping damage.

NOTE: There are two wall-mounting applications. The mounting space can be surrounded either by sidelights (windows) or masonry. In both cases the upper part of the window above the counter top (window sill) fits flush with the outside of the wall. (See Figure 2) The illustrations will show the walls with the sidelights, as this is the most common application. (Figure 3)

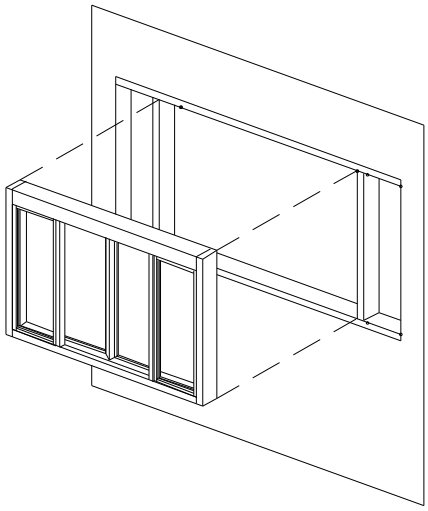


Figure 3

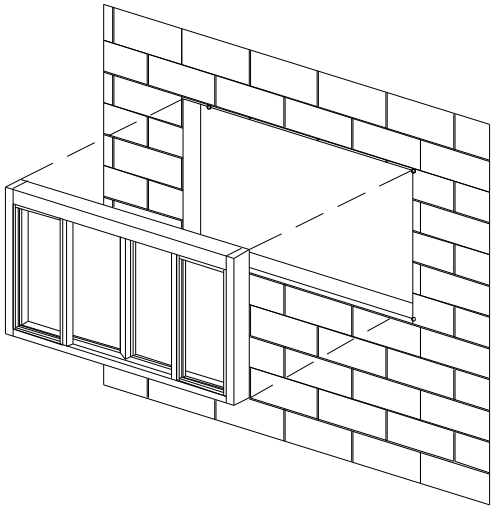


Figure 4

NOTE: If mounting the window in a masonry wall the window mounts flush with the outside finishing of the building. Drill points are scribed directly into the masonry. The outside edge of the mullion should be flush with the outside finishing of the building. (See Figure 4)

5. Position the window and place it into the customer-supplied frame. As shown in Figure 3 and 4

6. With one person holding the window in place, level the window using the shim shingles as needed.

7. Using the window mounting holes as a template, drill a quantity of 4 – 3/16” (5mm) diameter holes for mounting. (See Figure 5)

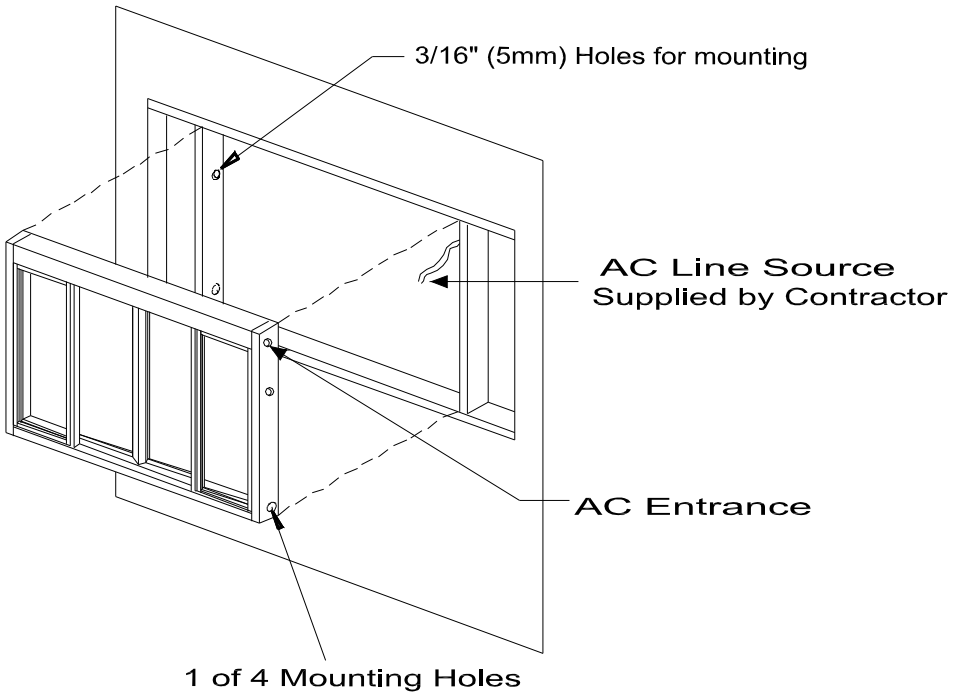


Figure 5

8. Take the window back out and drill the mounting holes. Set the anchors as needed.

9. With one person holding the window in place from the outside, set the mounting screws.

10. When the window is fully secured, seal the outside of the window to the frame or building using silicone caulk.

Electrical Installation

All power must be connected and wired by a **qualified electrician** and must be in compliance with all state and local codes.

The incoming AC power line must be connected to the wires in the duplex box located in the top header (Per Standard electrical code.) The green "grounding" wire is to be attached to the duplex receptacle.

WARNING: Use only 110/120VAC – 60Hz source with a ***dedicated 15Amp circuit***.
International power: 220/240VAC – 50/60Hz with a dedicated 8amp branch circuit.

WARNING: ***This must be a dedicated circuit. Other electrical equipment must not share the same line from the 15Amp circuit breaker.***

WARNING: Turning off the front panel rocker switches does not remove the 110/120 volts of electrical power form the unit.

WARNING: To disconnect the power completely from this unit, turn OFF the mechanical switch near the unit (Installed by an Electrician) or the electrical entry service panel/circuit breaker panel (Load Center) for this unit.

- **OSHA** LOCK OUT – TAG OUT procedures are to be observed to prevent power from being switched on accidentally.

1. Remove the 4 screws holding on the slide channel cover. See Appendix "C"
2. Wire the AC source line to the duplex receptacle. (See Figure 6)

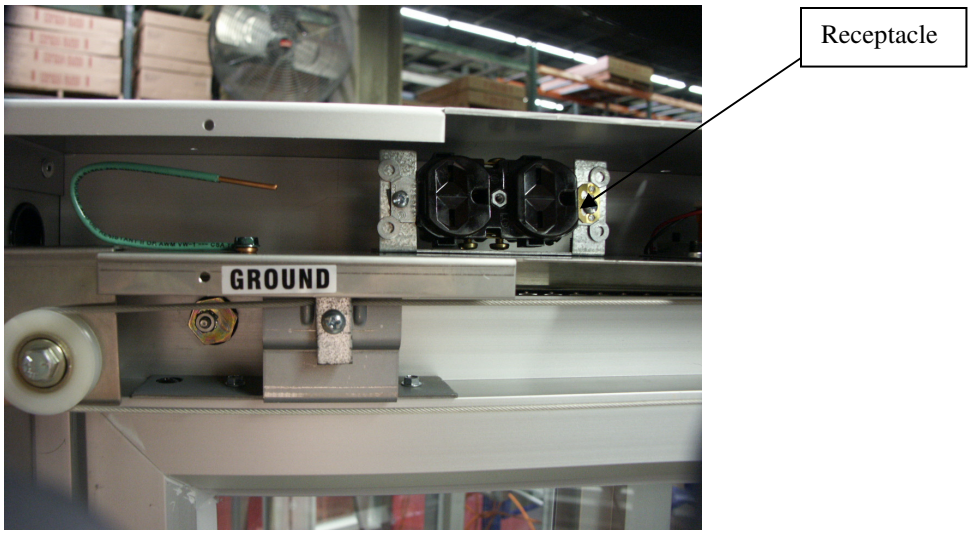


Figure 6

3. Connect the cable wire from the electric eye sensor.
4. Drill 4 - ¼" (6.5mm) holes using the masonry drill bit. (For Waist High Electric Eye Only)
5. Insert the plastic anchors and mount the brackets with the #10 or #12 screws. (For Waist High Electric Eye Only)
6. Attach the sensor to the brackets and secure. (For Waist High Electric Eye Only)
7. Turn "ON" the power to the unit. (Load center circuit breaker and power switch on the "Control unit".
8. Test window operations. See "Testing Procedures".

Initial Window Operation

Testing Procedures

Action	Reaction
Turn the power **"OFF"** at the rocker switch located on the controller unit. Manually open and close the doors several times.	When the doors are opening, the "MOTOR RUN" lamp will illuminate green. When the doors are closing, "MOTOR RUN" lamp will illuminate red. The "POWER" lamp must illuminate during both operations. If neither of these lamps illuminate during any of the processes, proceed to the "Troubleshooting" section.
Turn the power **"ON"** at the rocker switch located on the controller unit. Break the electric eye beam to open the door.	The doors will open to either a 12" (304.8mm) opening or to an 18" (457.2mm) opening.
With the power **"ON"** press the opening size button located on the controller unit once and break the electric eye beam to open the doors.	The opening size of the doors will change from the previous setting. (12" to 18" or 18" to 12")
With the power **"ON"** break the electric eye beam momentarily to open and close the doors.	The doors will open. They will remain in the open position for either approximately 3.0 or 6.0 seconds before closing.
With the power **"ON"** press the "CLOSE DELAY" button located on the controller unit once and break the electric eye beam to open the doors.	The doors will open and the length of time that the doors remain open will toggle between 1.5 and 3.0 seconds before closing.
With the power **"ON"** break the electric eye beam momentarily to open and close the doors. Insert an object at least 4" (101.6mm) wide between the doors as they are closing.	The doors will automatically reverse their action (the doors will open), when an object is caught between or restricting the closing of the doors.

Adjustments and Calibrations

SuperScan Presence Sensor Adjustment Instruction

Once the window is installed and the power is hooked up to the drive-thru window unit, you will need to test and set the range of the presence sensor. This is done to determine the best compatibility for your service applications. The presence sensor can be adjusted in many ways to work with different applications.

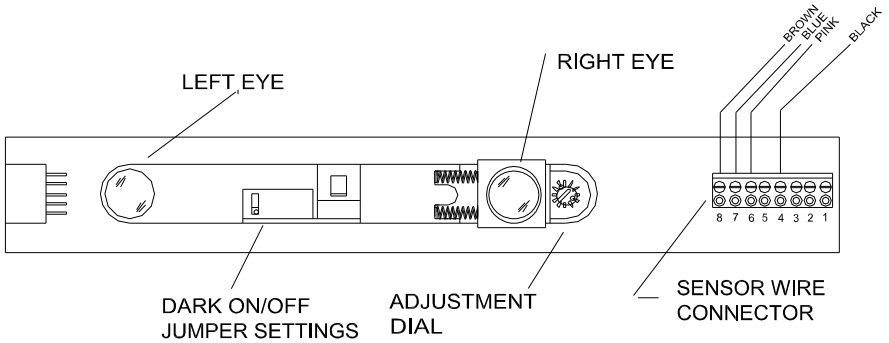
The tools required to perform this test and adjustments are: Phillips Head Screwdriver, Straight Blade Screwdriver and a ¼" Nut Driver.

If the drive-thru window stays open after the power is turned on and the beam break light is "ON", the sensor is detecting the floor or the counter top.

To adjust the presence sensor to the floor:

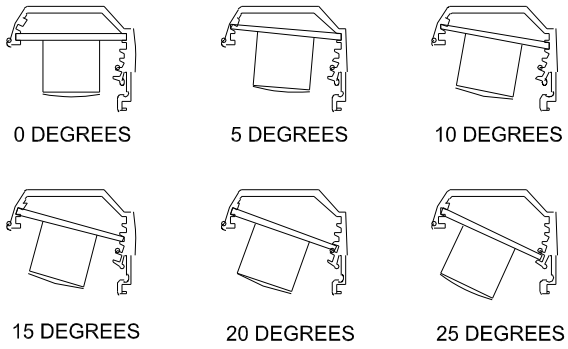
1. Turn the power "OFF" to the drive-thru window.
2. Remove one of the plastic end caps from the sensor body. (Preferably the left side)
3. Remove the black plastic lens cover.

Next to the "Right Eye" you will see an adjustment dial. This dial is used for adjusting the sensor to the distance from the floor. The dial is in a clock format. The maximum distance is achieved at the 9 o'clock position after the right eye clicks back into it's broadest setting. The minimum distance is achieved at the 9 o'clock position before the right eye clicks back into it's broadest setting.
NOTE: TURN THE DIAL IN A COUNTER_CLOCK_WISE FASHION ONLY.



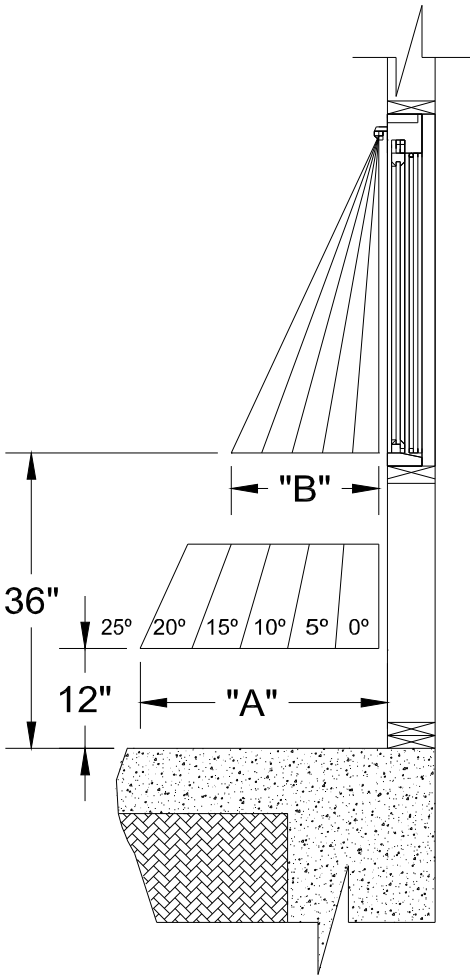
If the Drive-Thru window stays open while standing far away from the wall or the window closes on you while you are passing product out to the customer, Then the angle of the sensor need to be adjusted.

Below are diagrams illustrating the different setting that can be done to adjust the distance from the wall.



To adjust the sensor further or closer to the wall, follow the following steps.

1. Remove the header cover from the drive-thru window frame.
2. Disconnect the sensor from the inline connector.
3. Remove the (2) ¼" Hex head screws from the back of the cover that mounts the sensor to the cover.
4. Once the sensor has been removed, remove the eye control board from the sensor body.
5. Position the white plastic clips around the eye control board as illustrated on the previous page. (Reference the chart below to achieve the proper setting that is needed for your application.)
6. Once setting has been determined, insert the eye control board back into the housing.
7. Remount the sensor housing onto the cover.
8. Reconnect the sensor wires.
9. Attach the header cover to the drive-thru window.



RANGE OF SENSOR FROM WALL REFERENCE CHART							
MODEL 131	"A" DIMENSION RANGE WITH 12" DEAD ZONE FROM FLOOR						
UNIT HEIGHT	DEGREE	0º	5º	10º	15º	20º	25º
43-1/2"	"A"	1"	6-1/2"	12"	18"	24"	30-1/2"
35-3/4"		1"	6"	10"	16"	21"	27"

RANGE OF SENSOR FROM WALL AT THE WINDOW SILL REFERENCE CHART							
MODEL 131	"B" DIMENSION RANGE AT 36" FROM FLOOR						
UNIT HEIGHT	DEGREE	0º	5º	10º	15º	20º	25º
43-1/2"	"B"	1"	4-1/2"	8"	11-1/2"	15"	19-1/2"
35-3/4"		1"	3-1/2"	6"	9-1/2"	12"	15-1/2"

Door Alignment

Adjustments to the door height and alignment is accomplished by turning one or both of the eccentric nuts located at the top of the doorframe where it mounts to the slide track. (Figure 7)

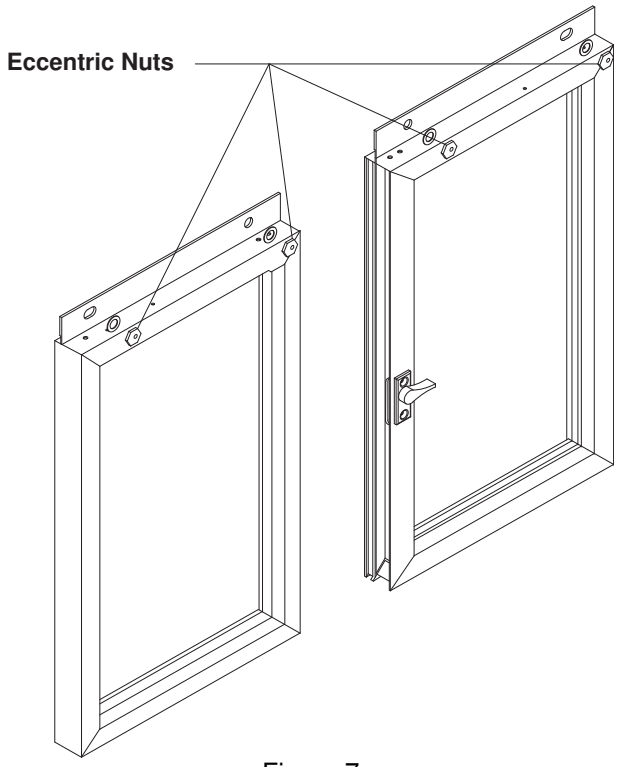
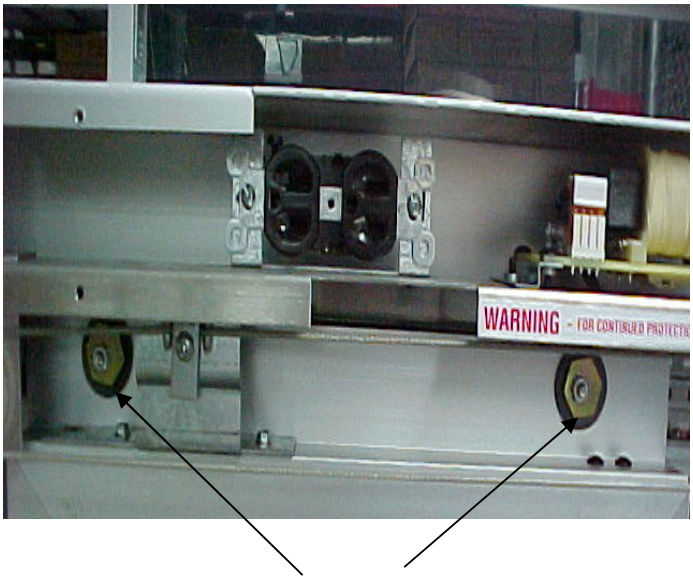


Figure 7

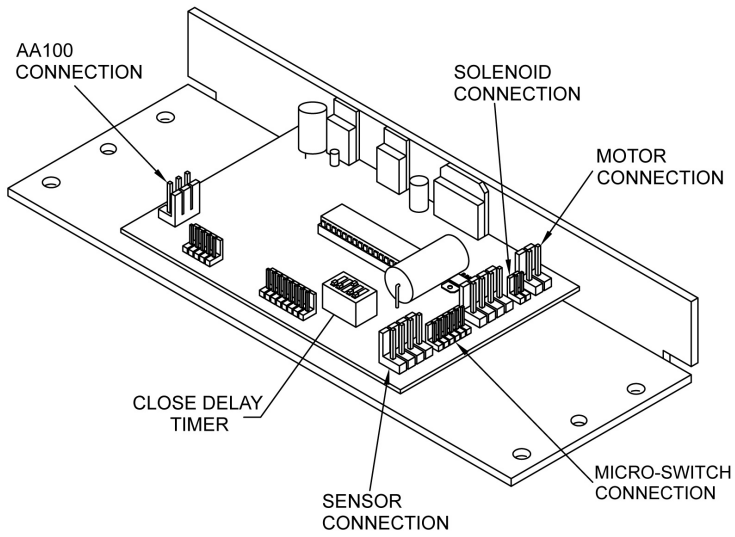


Adjusting nuts

Calibration:

The only calibration available on the DC-3 PC board is setting the close delay timer using the dip switch package mounted near the ribbon cable connector.

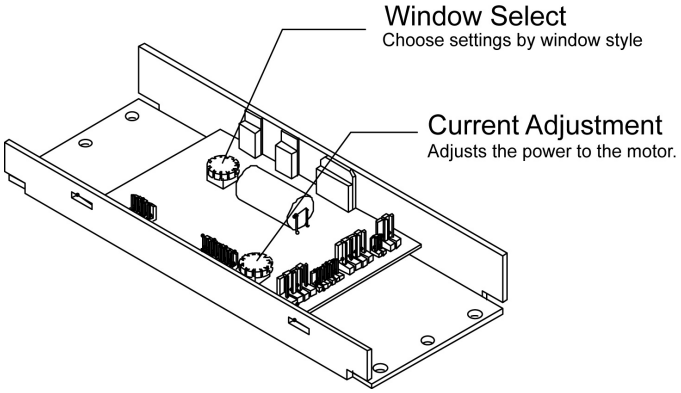
The CLOSE DELAY TIMER is default set a 3 seconds.



Follow the chart below for changing
The CLOSE DELAY TIMER settings

DIP SWITCH SETTINGS					
TIME IN SECONDS	SWITCH POSITION				
	1	2	3	4	5
1	ON	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF
3	OFF	OFF	ON	OFF	OFF
4	OFF	OFF	OFF	ON	OFF
5	OFF	OFF	OFF	OFF	ON
12	ON	ON	OFF	OFF	OFF
13	ON	OFF	ON	OFF	OFF
14	ON	OFF	OFF	ON	OFF
15	ON	OFF	OFF	OFF	ON
23	OFF	ON	ON	OFF	OFF
24	OFF	ON	OFF	ON	OFF
25	OFF	ON	OFF	OFF	ON
34	OFF	OFF	ON	ON	OFF
35	OFF	OFF	ON	OFF	ON
45	OFF	OFF	OFF	ON	ON

The DC-2 PCB has (2) Two Potentiometers



The WINDOW SELECT DIAL is used to set the type of door configuration for the model of the window.

The CURRENT DIAL is used to increase or decrease the current to the motor sensetivity. This is used to set the auto-reverse.

Operation Procedures

Modes of Operation:
The 131 bi-parting window has two modes of operation, Manual/Self Closing and Fully-Automatic.

Operations
After installation of the model #131 Manual/Self Closing or Electric Sliding window, completion of the testing procedures and the installation of the decorative covers, the window is ready for normal use.

Manual/Self Closing
The opening of the window is done by hand, closing is done by gravity.
(DO NOT OPEN OR CLOSE THE DOORS WITH ANY UNDUE FORCE)

Manual Operations:

1. Unlock the Thumb-Turn Lock on the door.
2. Release the manual latch and push the doors open.
3. On Self Closing release door and it will shut by gravity, (manual) push the doors closed.
4. Relock the Thumb-Turn Lock.

Fully-Automatic
The **Manual Mode** is reached by turning “OFF” the main power to the window. The opening and closing of the window is done by hand **(DO NOT OPEN OR CLOSED THE DOORS WITH ANY UNDUE FORCE)**

The **Automatic Mode** is reached by turning “ON” the main power to the window. Stepping in and out of the sensor’s range opens and closes the doors.

1. On the controller unit, turn the power rocker switch to the “ON” position.
2. Check that the red portion of the rocker switch is visible and that the red power lamp is illuminated.
3. Break the electronic eye beam or step into the sensor beam path. The red beam break and green motor run lamps go on.
4. Step out of the beam path and wait 3 to 6 seconds for the doors to close. The red motor run lamp and red close detect lamps will illuminate. After the doors close note that the red power lamp and the current detect lamps are “ON”.
5. If the doors do not operate correctly, go to the troubleshooting guide in this manual. If the doors still do not operate properly, then call Ready Access at

1-800-621-5045

6. The doors can be operated manually by pulling the manual release located at the top of the door.

NOTE: Turn the power off to the window to prevent any damage to the PCB.

Each operator must read the operations manual before operating the unit.

Controls Identification, Explanation and Function

Controller Unit

Lamps and Switches	Function
Power Lamp	This lamp indicates that the power rocker switch is on and the controller is receiving power.
Motor Run Lamp	The “MOTOR RUN” lamp indicates that power is being applied to the motor. When the doors are opening, lamp will illuminate green. When the doors are closing, the lamp will illuminate red. The lamp also allows for the diagnostic checking of the motor and motor wiring. To test, turn the power “OFF” at the rocker switch and manually open and close the doors. This will cause the lamp to illuminate either green or red. The “POWER” lamp must illuminate during both operations. If neither of these lamps illuminate during any of the processes, proceed to the “Troubleshooting” section.
Beam Break Lamp	This lamp indicates that the electric eye beam or presence sensor beam has been broken and/or the “CLOSE DELAY” timer is still timing out.
Close Detect Lamp	This lamp is red and indicates that a “CLOSE” sequence has been initiated. It will always light during a door closure and will go out just before the doors come together. When the lamp is out, the automatic reverse feature is disabled.
Current Detect Lamp	This lamp is red and indicates an overload has been detected. This lamp may light on opening but is automatically disabled. The lamp will come on when the doors are fully closed or when an obstruction has been encountered.
Beam Test Switch	Pressing the “BEAM TEST” button once will test the operations of the doors without using the electric eye or presence sensor. To test, the operator should not be in the path of the light beam or presence sensor. Standing in the light beam while pressing the button will put the window into a test mode. This will make the window continuously operate (open and close) automatically. You must turn the power off and back on to reset the window.
Close Delay Switch	Pressing this button will toggle the length of time that the doors remain open between 1.5 and 3.0 seconds before closing.
Opening Size Switch	Pressing this button will toggle the opening size of the doors from (12” to 18” or 18” to 12”)

Maintenance

Maintenance Schedule

Scheduled maintenance should be performed on a regular basis. This is to assure proper operation and performance of the 131 windows.

Daily

Check the sill for foreign materials and/or syrup. (Anything that might cause the window to bind up and not operate smoothly.)

Monthly

Follow safety procedures before opening the unit.

Check the interior of the unit for any build up of any foreign materials using a dry cloth.

NOTE: KEEP ANY LIQUIDS OFF THE INTERIOR COMPONENTS.

Clean moving parts and lubricate with silicone or Teflon spray.

NOTE: Do NOT use Grease or Oils. Do NOT lubricate the motor clutch assembly.

Yearly

Have a service technician come in and perform a maintenance check on the unit.

SERVICE

TROUBLESHOOTING GUIDE

Issue	Probable Cause	Resolution
Power switch in the "ON" position but the light is not illuminated.	• No power to the controller unit ➢ Main Circuit breaker is defective or not "ON" ➢ The fuse on the power supply is blown ➢ Main power rocker switch is defective ➢ AC wiring is defective	➢ Reset or replace the main circuit breaker in the load center ➢ Replace the fuse on the power supply ➢ Test rocker switch with an ohmmeter. Replace if necessary ➢ Check AC wiring for opens. Replace if necessary
	• Red Lamp/s not illuminating	• Replace the PCB assembly cover
	• The 4 pin power connector to the main PCB assembly is not secure	• Secure the connector/s to the power supply
	• The connector/s to the rocker switch are not secure	• Secure the connector/s to the rocker switch
"BEAM BREAK" lamp is "OFF" and does not illuminate when the electric eye is broken.	• Defective electric eye assembly ➢ Pressing the "BEAM TEST" button on the controller unit can test this. The doors should open, pause and close. If the doors operate normally, check other causes listed below	• Replace the electric eye assembly
	• Loose electric eye cable from the PCB	• Secure the cable connector (3 or 4 pin)
	• Loose or broken wire/s in the electric eye cable	• Check that the electric eye cables are secure and not broken
	• Defective lamp	• Replace the PCB assembly cover
	• Defective PCB assembly	• Replace the PCB assembly
The "CLOSE DELAY" switch is not working properly.	• Loose or broken connection to the PCB Assembly	• Secure the cable connector to the PCB assembly or replace the control PCB cover
	• Defective "CLOSE DELAY" switch	• Replace the control PCB cover
The "BEAM TEST" switch is not working properly. The "BEAM BREAK" lamp is not illuminated and the doors do not open.	• Loose or broken connection to the PCB assembly	• Secure or replace the cable assembly
	• Defective CONTROLLER unit	• Replace the CONTROLLER unit
	• Defective PCB assembly	• Replace the PCB assembly

Issue	Probable Cause	Resolution
When the beam is broken, the doors do not open. The red "POWER" and "BEAM BREAK" lights and the green "MOTOR RUN" light on the CONTROLLER unit are "ON".	• Defective motor assembly. ➢ To test for a defective motor, open and close the doors with the power "OFF". If the motor is faulty, the red/green "MOTOR RUN" lamp will not illuminate	• Replace the motor assembly
	• Solenoid latch in the door is stuck or defective ➢ To test for a defective solenoid, manually open the doors halfway and break the beam. The solenoid should retract the hook and the doors should open, pause and close. Break the beam again to verily that the doors are not opening ➢ Check the wiring to the solenoid	• Replace the solenoid
	• Defective components on the cable drive assembly. ("S" hook, cable, spring, chain, bearing	• Replace the defective component
Beam Break Lamp is "ON" and the doors open, but they do not close.	• Loose or broken wires	• Secure or Replace the cable assembly
	• Defective electric eye assembly ➢ Disconnect the cable for the electric eye and press the "BEAM TEST" button. If the doors operate properly the eye is defective	• Replace the eye assembly
	• Defective PCB assembly. ➢ Disconnect the cable for the electric eye and press the "BEAM TEST" button. If the doors do not operate properly the PCB is defective	• Replace the PCB assembly
The door close fully but open back up as soon as the doors come in contact with each other.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• Limit switch striker is loose or out of alignment	• Tighten and/or align the striker plate
	• Defective "Close" limit switch	• Replace the defective "Close" limit switch
	• Defective controller unit	• Replace the controller unit

Issue	Probable Cause	Resolution
Door "OPENING SIZE" is not working properly.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• The Small/Large Opening limit switch is defective	• Replace the appropriate switch
	• The "OPENING SIZE" selector switch on the controller is defective	• Replace the PCB assembly cover
Motor continues to run after the doors are fully opened. The "OPENING SIZE" button has no effect.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• Limit switch striker is loose or out of alignment	• Tighten and/or align the striker plate
	• Defective "Open" limit switch	• Replace the appropriate switch
	• Defective controller unit	• Replace the controller unit
The doors will not "AUTO REVERSE" for an obstruction when closing and the motor continues to run. The "CURRENT DETECT" lamp will not illuminate.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• Limit switch striker is loose or out of alignment	• Tighten and/or align the striker plate
	• Defective "Close" limit switch	• Replace the defective "Close" limit switch
	• Defective controller unit	• Replace the controller unit
The doors do not fully close and go into AUTOREVERSE to the fully open position. Doors may be sluggish in operations. The "CURRENT DETECT" lamp will be illuminated before the "CLOSE DETECT" lamp goes out. **(BEFORE REPLACING THE MOTOR CALL READY ACCESS FOR FURTHER INSTRUCTIONS)**	• Spilled soft drink syrup residue is under the doors and on the weather stripping of guide block	• Clean the weather stripping, counter and door guides on the bottom of the doors with soda water
	• Doors are dragging on the counter top	• Adjust the door height and alignment (Refer to the adjustments section of this manual)
	• Defective motor assembly ➢ To test for a defective motor, open and close the doors with the power "OFF". If the motor is faulty, the red/green "MOTOR RUN" lamp will not illuminate	• Replace the defective motor assembly
	• Defective CONTROLLER unit	• Replace the CONTROLLER unit

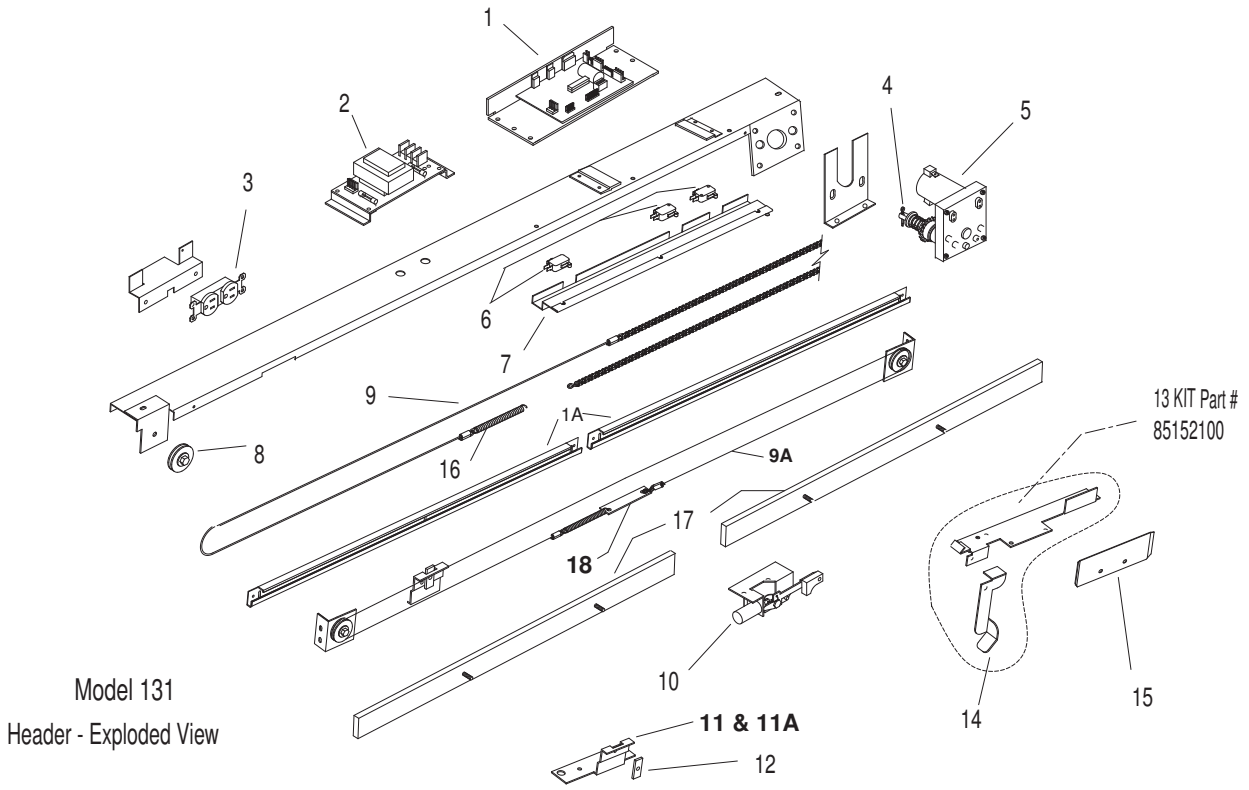
Parts Lists

Complete Parts List (Description/Part Number)

Description	Current Part Number	Previous Part Number	Note
"S" Hook	20240016	N/A	
Angle - Reinforcement - Door - ALL SLIDERS	95119900	N/A	4pcs per door.
Bracket - Solenoid	95150301	N/A	
Bumper w/blk Lvl - 1x1	40010003	N/A	
Bumper w/washer Gry	40010023	N/A	
Cable - Auto Latch (Solenoid)	20112141	00651313	
Cable - BEA Sensor	20112148	20110148	
Cable - Eye (Waist High)	20112143	20110143	
Cable - Motor	20112144	20110144	
Cable - Power	20112142	20110142	
Cable - Sensor Bi-Parting Units	20112147	N/A	
Cable & Chain Assy - BO-10, 131	85153600	65153601	
Cable Clamp	95150900	N/A	
Cable Clamp Bracket	95151001	N/A	
Clutch Assy - Kit - BO-10, 131	85152700	65152701	
Clutch Assy - Manual Arbor	85163200	N/A	
Cover - Header - Electric, Bronze	65161301	N/A	
Cover - Header - Electric, Clear	65161302	N/A	
Cover - Header - Manual, Bronze	65162601	N/A	
Cover - Header - Manual, Clear	65162602	N/A	
Door Assy - L/H - Bronze	85183501	65183501	
Door Assy - L/H - Bronze - 131-6	85183601	N/A	
Door Assy - L/H - Clear	85183301	65183301	
Door Assy - R/H - Bronze	85183502	65183502	
Door Assy - R/H - Bronze - 131-6	85183602	N/A	
Door Assy - R/H - Clear	85183302	65183302	
Door guide	00651190	00651186	
Door Guide Replacement Kit (Both Pcs	85003500	N/A	
Door Handle Kit - (manual units)	85002600	00651758	
Electric Eye/Reflector Kit -waist level operation	85000200	00651144	Not MOER or 275 after 2/99
Glass Support	00650272	N/A	
Hanging Hardware Kit (Adj. Nut) (2)	85183400	65183401	
Housing - Elect Eye	00650929	N/A	
Latch Spring	00650269	N/A	
Lock - Dead Vertical Position -After 7/14/03	85004200		

Description	Current Part Number	Previous Part Number	Note
Lock - Thumb Turn - Long - After 2/97	85004500	N/A	
Lock Latch Kit	85145800	65145801	
Motor & Clutch Assy	85178200	65178201	
PC Board - DC3	Call for #		Provide Serial #
Power Supply Int'l, B/O-10, 131 Int'l	Call for #	N/A	Provide Serial #
Power Supply, B/O-10, 131	Call for #	N/A	Provide Serial #
Pulley-Kilrol (cable)	20200142	N/A	
Retro Fit Kit - 131 MANUAL/ELECTRIC Bronze	84173001	65173001	
Retro Fit Kit - 131 MANUAL/ELECTRIC BRZ INTL	84174001	65174001	
Retro Fit Kit - 131 MANUAL/ELECTRIC Clear	84173002	65173002	
Retro Fit Kit - 131 MANUAL/ELECTRIC CLR INTL	84174002	65174002	
Retro Fit Kit - 131/10 MANUAL/ELECTRIC BRZ INTL	84174501	65174501	
Retro Fit Kit - 131/10 MANUAL/ELECTRIC CLR INTL	84174502	65174502	
Rivet	10180009	N/A	
Rivet For Bearing Slides Long Shank	10180010	N/A	
Rivet For Door Guide	10180024	N/A	
Rocker Switch for PCBA Cover	20110214	N/A	8/99 B/O1,2,4 after 2/27/02
Rubber Glass Channel	65028601	N/A	
Screw for Cable Clamp	10010026	N/A	
Screw for inside cover, sensor striker	10010114	N/A	
Screws for Door Guide (Need 4)	10060087	N/A	
Sensor Assy - BEA - 131E	85100700	N/A	Starting 3/10/99 Ser# 68151
Sensor Striker	65151101	N/A	
Slide Kit	85000100	20050011	
Solenoid & Hook Assy R/L	85150510	65150501	
Spring - Compression (Motor & Clutch)	20060026	N/A	
Spring - Extension (Chain & Cable)	20060025	N/A	
Switch - Micro	20110281	N/A	
Switch Assembly - Micro - BO-10, 131	85151300	65151301	
Weather Strip Kit - BO-2,4,10, 275	85104000	65104001	
Wired PCBA Cover	65162501	N/A	

Drawings

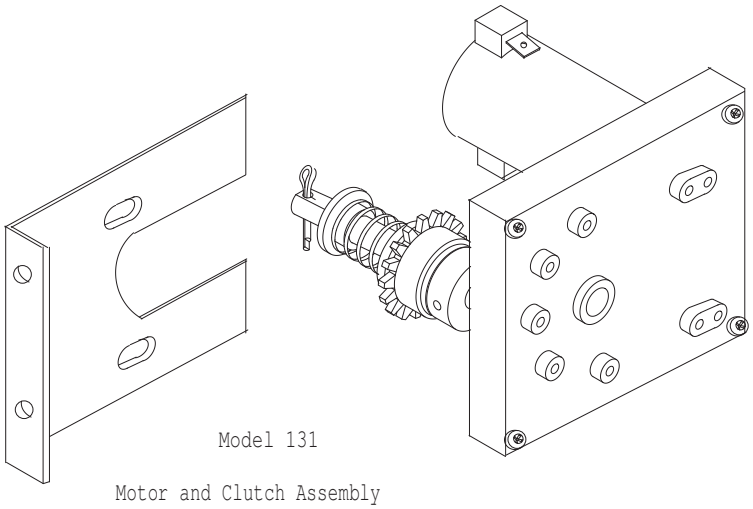


131E Header Parts Listing

REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1	Call for #	Control PCB Assy		9	85153600	Cable and Chain Assy
2	Call for #	120V Power Supply		10	85150510	Solenoid and Hook Assy
*2	Call for #	220V Power Supply (Int'l)		11	95151001	Cable Clamp Bracket
3	20110241	Receptacle		12	95150900	Cable Clamp
4	85152700	Clutch Assy		13	85152100	Manual Release Bracket Kit
5	85178200	Motor & Clutch Assy		14	00651758	Manual Release Handle
6	20110281	Micro switch		15	65151101	Striker Plate (Sensor)
7	85151300	Micro switch Assy		16	20060025	Tension Spring
8	20200142	Kilrol Pulley		17	85000100	Door Slide Kit

131 Manual & Self Close Header Parts Listing

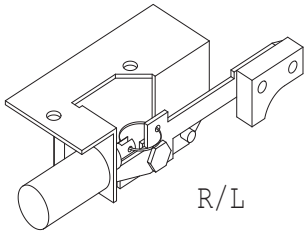
REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1A	85000150	Door Track Kit		12	95150900	Cable Clamp
8	20200142	Kilrol Pulley		16	20060025	Extension Spring
9A	85153700	SC Cable Assembly PVC		18	95151700	Cable Connector Bracket
11A	95151300	SC Cable Clamp Bracket				



Model 131

Motor and Clutch Assembly

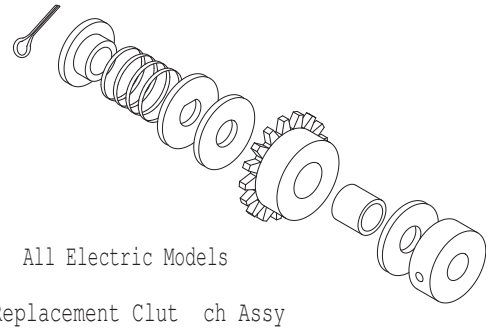
Part Number 85178200



R/L

85150510

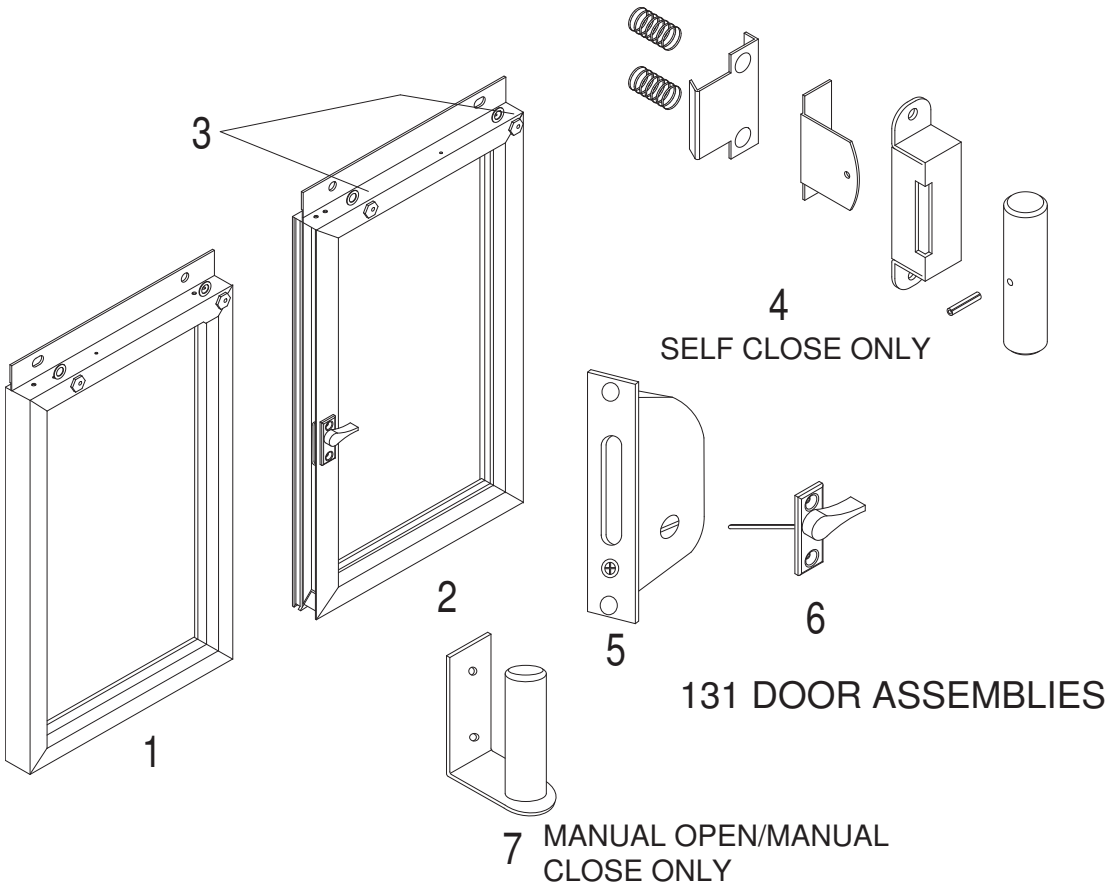
Solenoid and Hook Assembly



All Electric Models

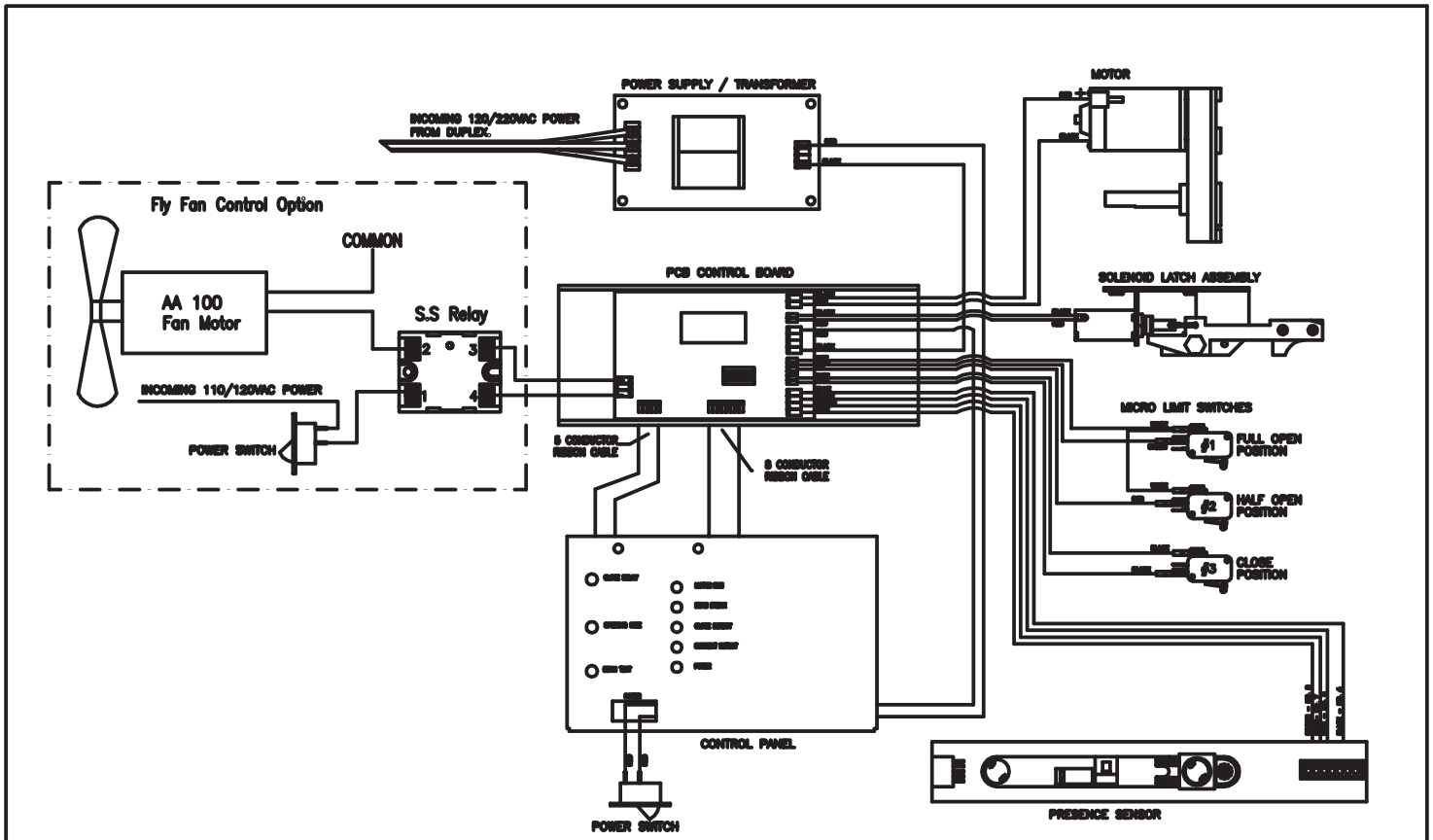
Replacement Clut ch Assy

Part Number 85152700



131 DOOR ASSEMBLIES

REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1	85183502	Door Assy - R/H BR		3	85183400	Hanging Hardware Kit
1	85183302	Door Assy - R/H CL		4	85197000	Door Handle Kit – Man. & SC
1	85183602	Door Assy - R/H BR 131-6		5	85004200	Lock Assy – Dead Bolt
2	85183501	Door Assy - L/H BR		6	85004500	Thumb Turn – Long
2	85183301	Door Assy - L/H CL		7	85002600	Door Handle Kit – 131M
2	85183601	Door Assy - L/H BR 131-6				



WORK TO DIMENSIONS-DO NOT SCALE TOL. UNLESS SPECIFIED XXXX TOL. NOT REQ'D TOL. CLASS ± .030 ANGULAR TOL. ± 1°	USED IN PRODUCTS: 131	DESIGN BY: SRH	MATERIAL: Elec Components	READY ACCESS 2337 Arthur Drive • West Chicago, IL • 630-562-9000 (800-345-7703) • Fax 630-562-7707
	REVISION: B	DRAWN BY: SC	MATERIAL SPEC:	
	REVISION DATE: 1.30.09	DATE: 2/13/04	GAUGE:	
	LATEST REVISION NOTE: REV B=REVISED FLY FAN CONTROL OPTION			DESCRIPTION: 131 Wiring Diagram PART. NO.: N/A

Appendix A

INSTALLING 131 WEATHER CHANNEL

1. REMOVE DOORS.

2. REMOVE PLASTIC RECTANGLE GUIDE BLOCKS FROM SILL.

3. TAKE THE WEATHER CHANNEL AND POSITION IT INTO PLACE WITH THE 50" X 1" FLANGE TURNED UP. THE WEATHER CHANNEL WILL FIT WITHIN THE OPENING.

4. USING THE WEATHER CHANNEL AS A TEMPLATE, MARK ALL THE HOLES FOR DRILLING EXCEPT FOR THE TAPPED HOLES USED FOR THE GUIDE BLOCKS.

5. MAKE SURE THAT THE CHANNEL DOES NOT COVER THE THREADED HOLES USED FOR THE GUIDE BLOCKS.

6. REMOVE CHANNEL AND DRILL HOLES USING A 3/16" DRILL BIT.

7. ONCE HOLES ARE DRILLED, CLEAN AWAY ALL METAL SHAVINGS.

8. NEXT, PUT A SMALL BEAD OF CAULK APPROX. 1" DIA. AROUND THE HOLES AND ACROSS THE WIDTH OF THE SILL BEFORE PLACING CHANNEL BACK INTO POSITION.

9. WITH THE CHANNEL IN POSITION, RE-INSTALL THE GUIDE BLOCKS FOR PROPER ALIGNMENT, BUT DO NOT TIGHTEN UNTIL CHANNEL IS FULLY FASTENED.

10. POP-RIVET THE REMAINING HOLES.

11. TIGHTEN THE GUIDE BLOCKS.

12. CAULK THE ENDS OF THE CHANNEL WHERE IT MEETS THE SIDE POSTS AND TRIM CAULK AROUND WHERE CHANNEL MEETS WITH STATIONARY GLASS AND POSTS.

13. RE-INSTALL DOORS AND ADJUST.

IF THERE ARE ANY QUESTIONS, PLEASE CONTACT READY ACCESS SERVICE DEPTARTMENT @800-621-5045.

Appendix B
Adjusting or Re-hanging the Doors

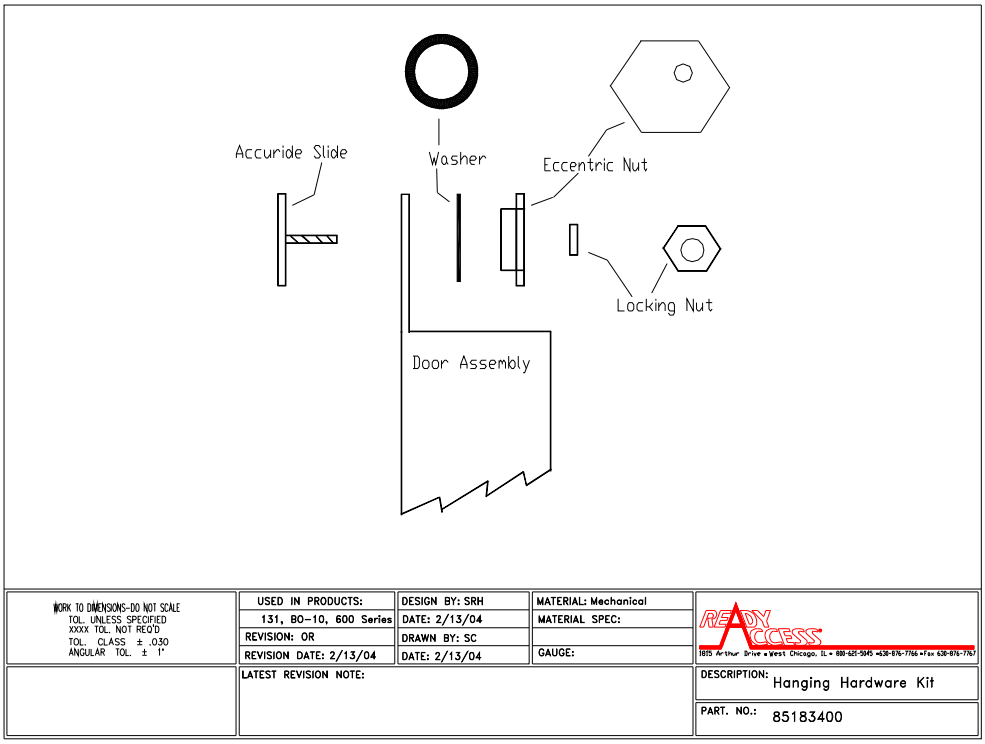
The distance of the door(s) above the mullion or counter top is adjusted by turning the eccentric nuts located in the corners at the top of each door. (See figure 11 – page 16) The exploded view of the assembly is shown in Figure 1 below.

When a door has dropped, such that it impedes the movement of the doors, it is necessary to re-adjust both doors to a given distance above the counter top. This is accomplished by loosening the two Locking / Eccentric Nut combinations at the top of each door. Loosening the small locking nuts allows both doors to drop down and rest on the counter top.

Slide the doors inward to the closed position and lock using the night lock. Insert two shims about 0.100” in thickness under each door. One at each end of the doors is suggested. A standard coffee stir or a tongue depressor is a bout 0.100” thick. This allows the doors to set at a preset distance off the counter top.

Starting with one of the Locking / Eccentric Nut combinations turn the eccentric nut with until you feel resistance and/or notice that the door is beginning to rise. Keeping the eccentric nut in that position, tighten the locking nut down to approximately 30 lbs/in^2 of torque.

Repeat the above step for each of the remaining Locking / Eccentric Nut combinations. Remove the shims. The doors should now be at the proper height as well as being square with each other.



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